

ABSTRACT

A method for mobile communication includes arranging a plurality of access points in a wireless local area network (WLAN) to communicate over the air with a mobile station using a common basic service set identification (BSSID) for all the access points. Upon receiving at one or more of the access points an uplink signal transmitted over the WLAN by the mobile station using the common BSSID, messages are sent and received over a communication medium linking the access points in order to select one of the access points to respond to the uplink signal. The selected one of the access points transmits a response to the mobile station.